GUIDED PROJECT ON PLASMA DONOR APPLICATION
SMARTINTERNZ

Category: Red Hat OpenShift

Project Description:

During the COVID 19 crisis, the requirement for plasma became high and the donor count being low. Saving the donor information and helping the need by notifying the current donors would be a helping hand. In regard to the problem faced, an application is to be built which would take the donor details, store it and inform them upon a request.

Users need to register an account and login to the application. Once the user logins, he will have a dashboard to view the total number of donors and count of people with specific blood groups. User will have the option to request the blood. Once the user requests, all the people with that blood group will be notified with an SMS.

Project Workflow:

- User interacts with the application.
- Registers by giving the details as a donor.
- Database will have all the details and if a user posts a request then the concerned blood group donors will get notified about it.

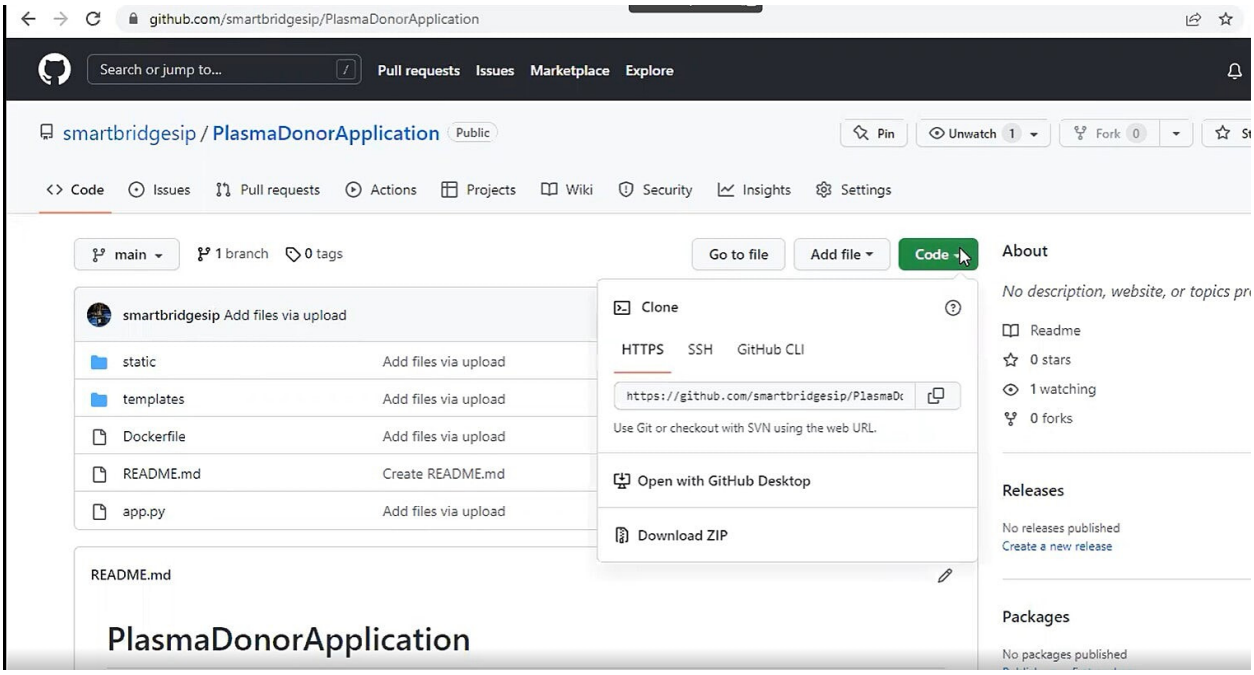
- Create the docker image for the application and deploy on Redhat OpenShift dev space.

Application Environment:

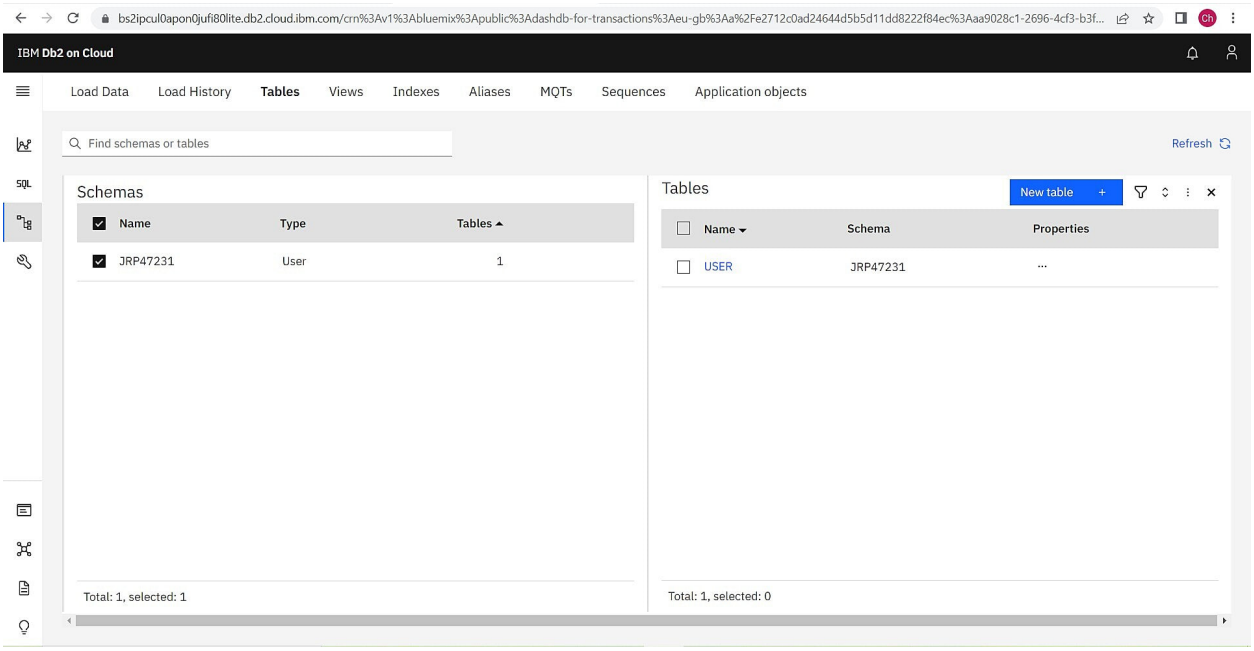
1. Python IDLE
2. Flask
3. IBM DB2
4. Red Hat OpenShift

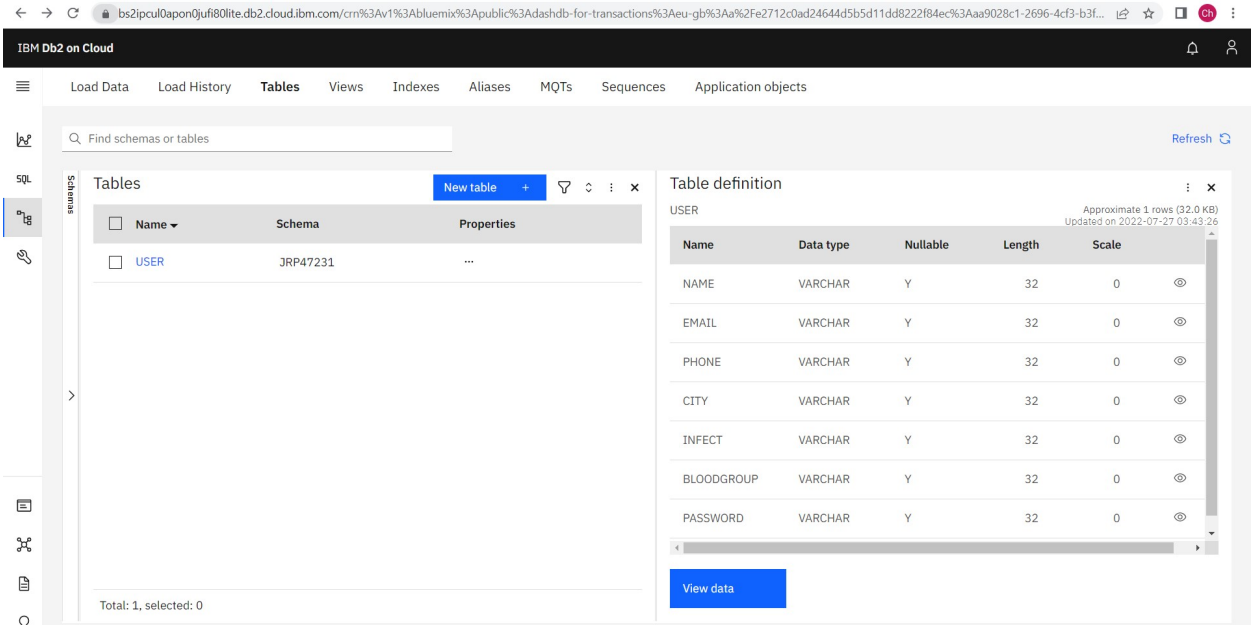
Implementing the Web Application:

1. Download the required source code for Plasma Donor App from GitHub.

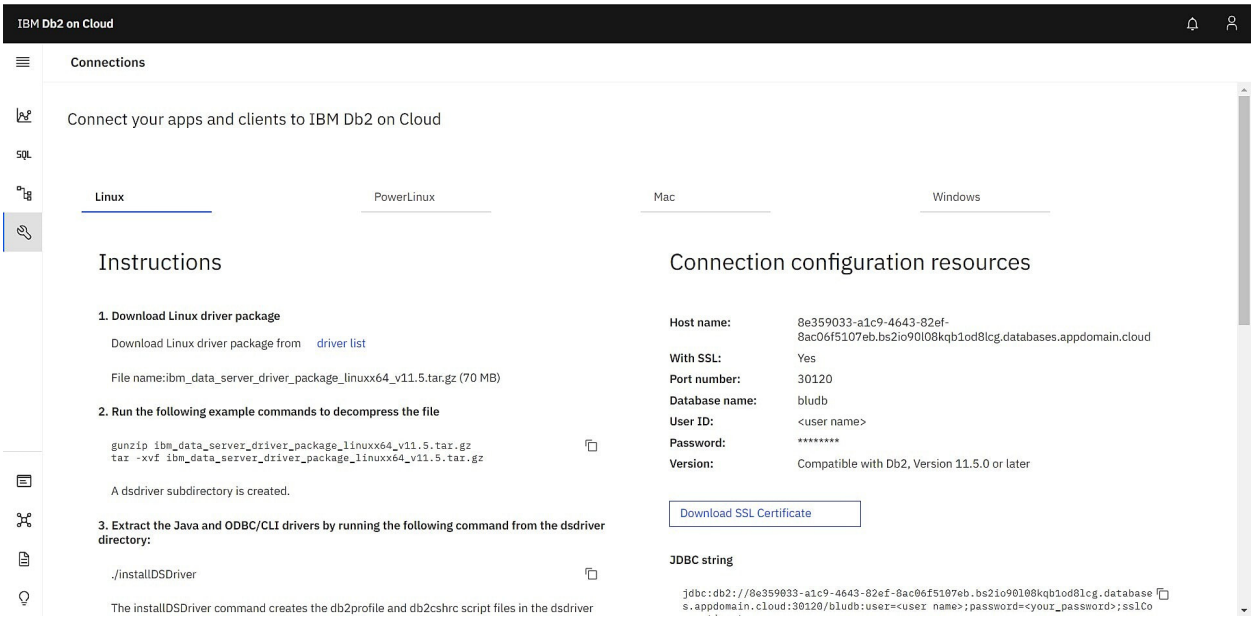


2. Create an IBM DB2 service in IBM Cloud, and create a table called user in DB2 service.



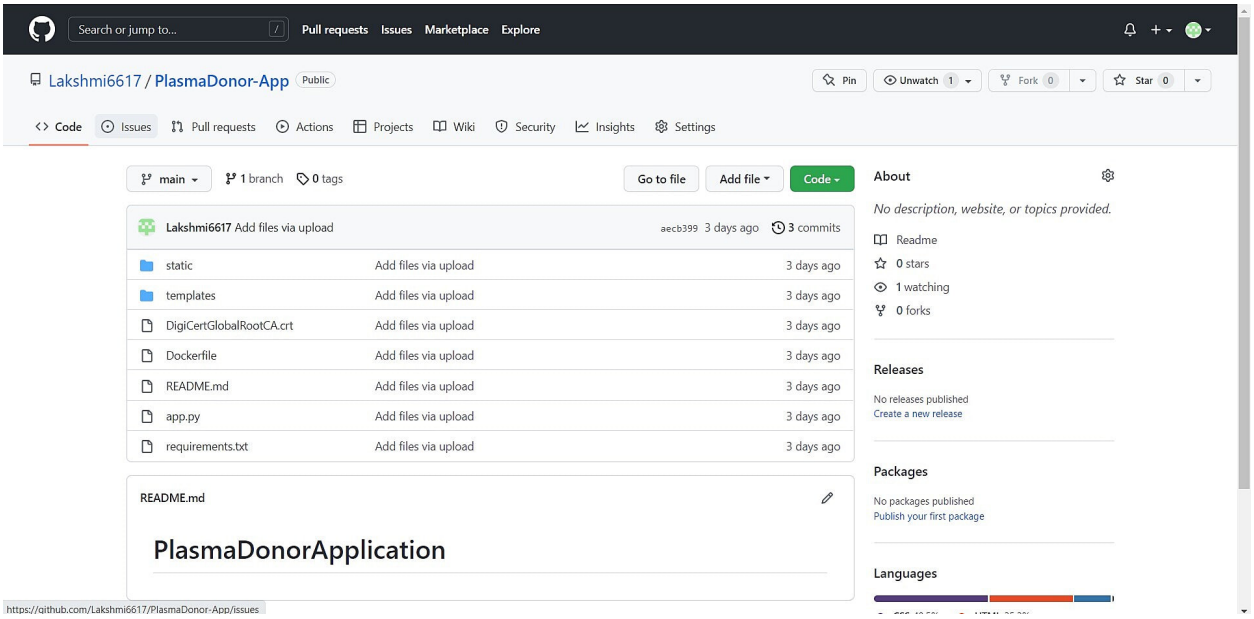


3. Connect the database in DB2 to the Python code.



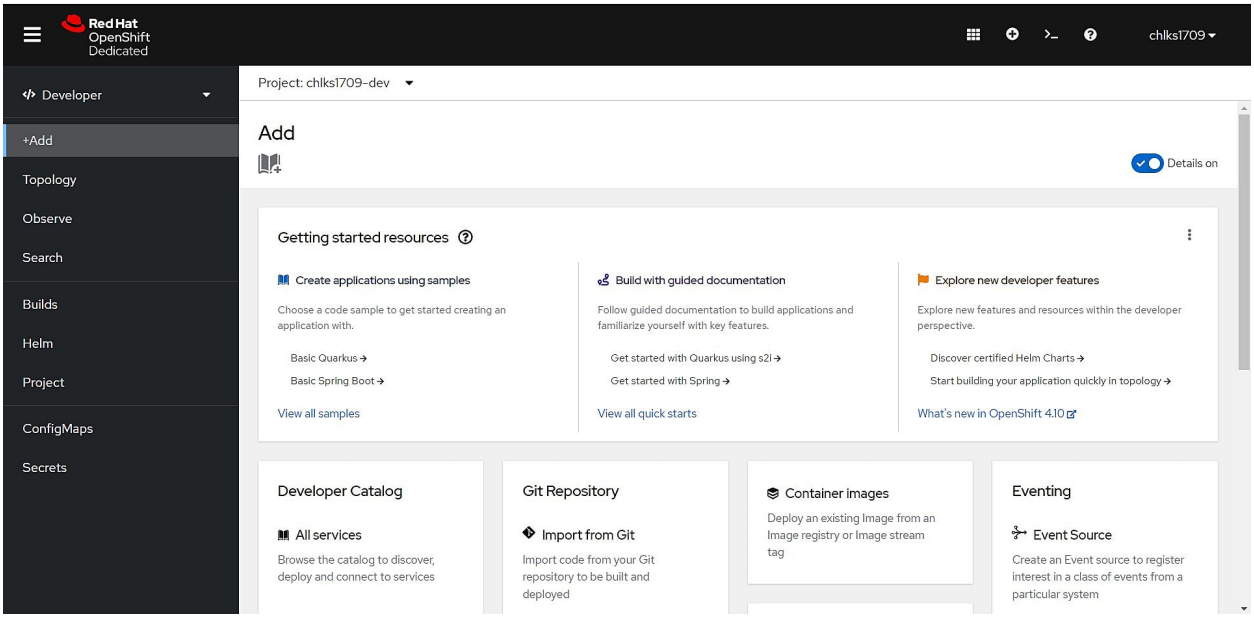
Uploading the source code to GitHub:

1. Upload the source code created into a new repository in our github account.

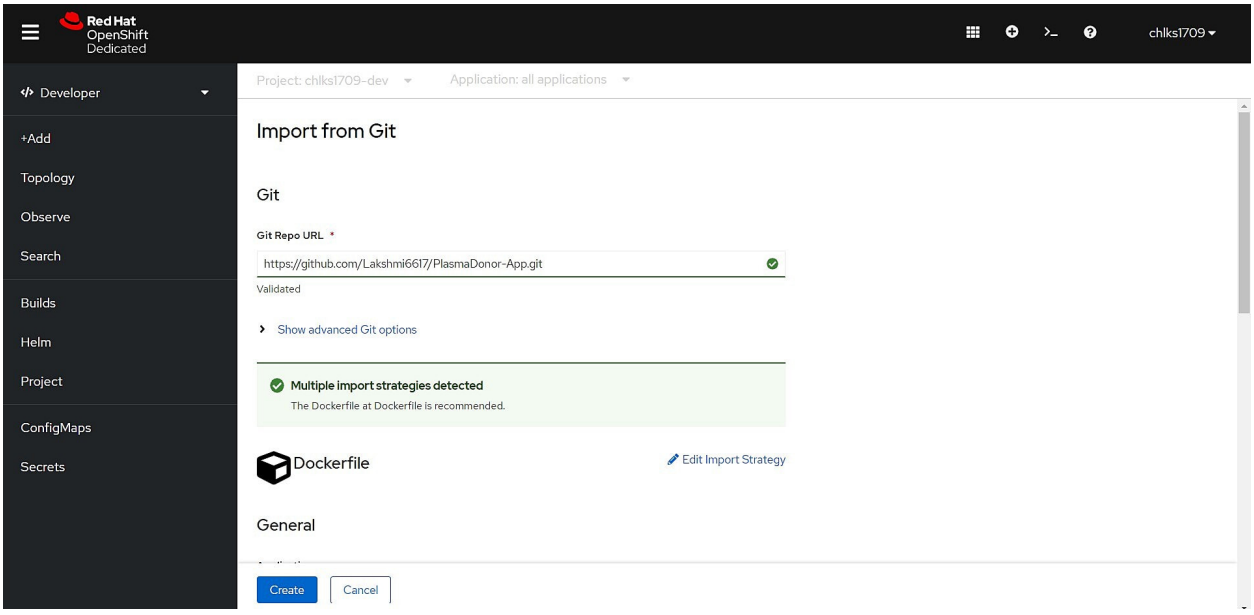


Deploying app on Red Hat OpenShift Dedicated:

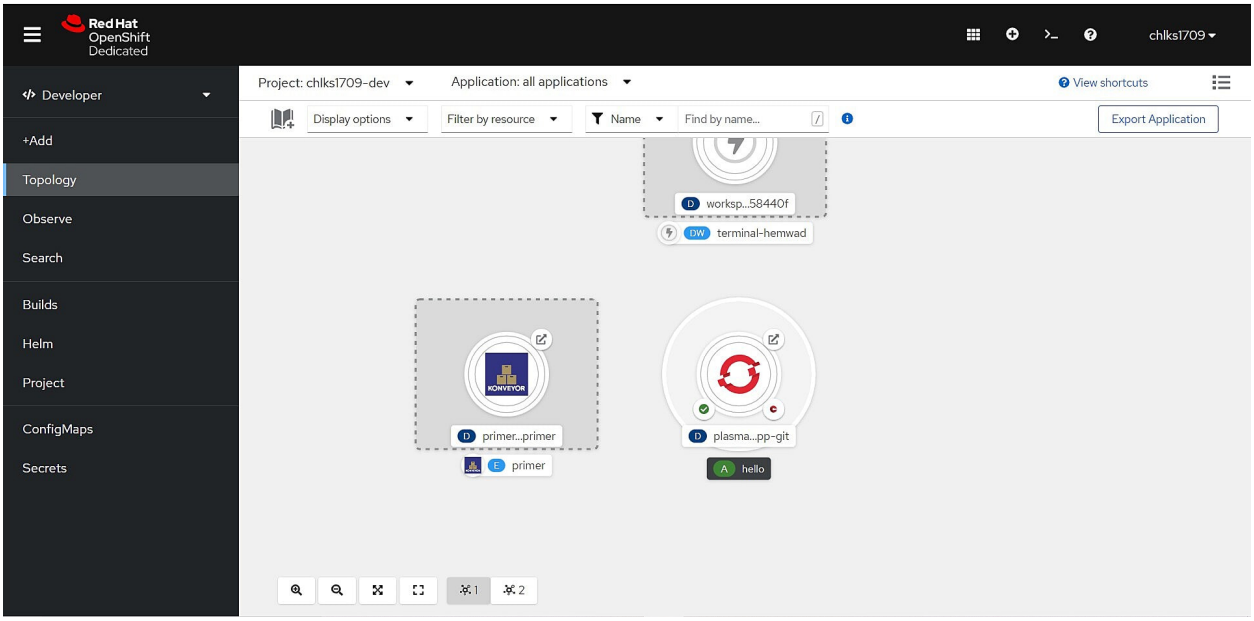
1. Open the Red Hat OpenShift Dedicated Account.
2. Create an application in Developer tab.

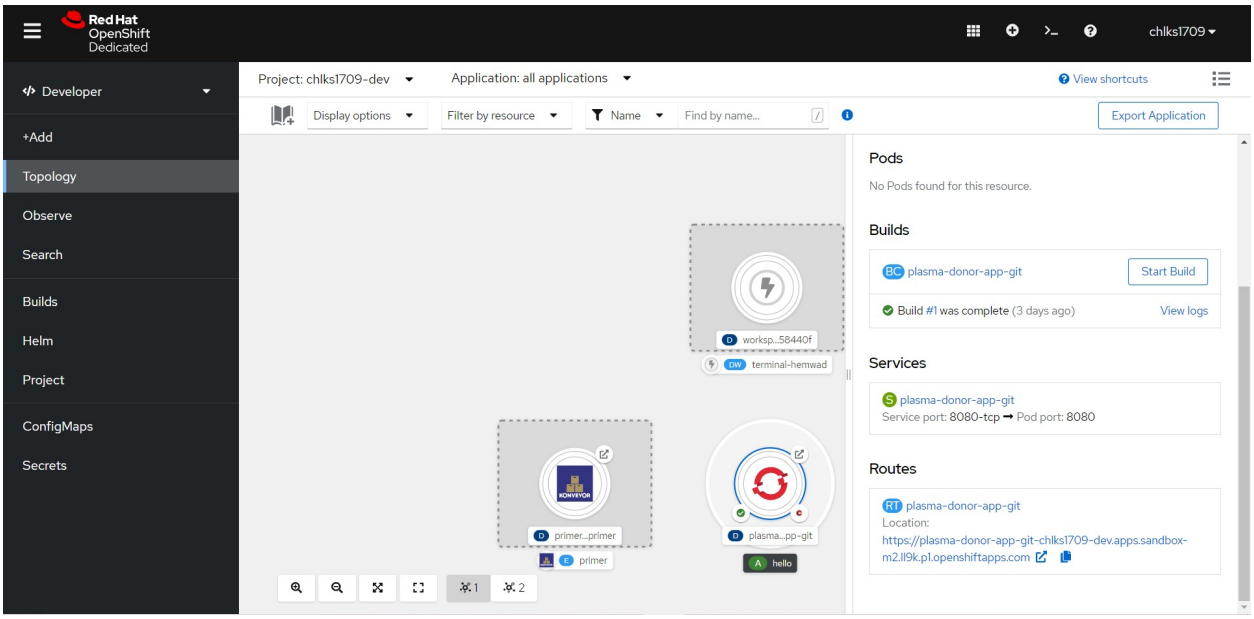


3. Enter the git repository link for uploading the application in to OpenShift Dedicated SandBox.

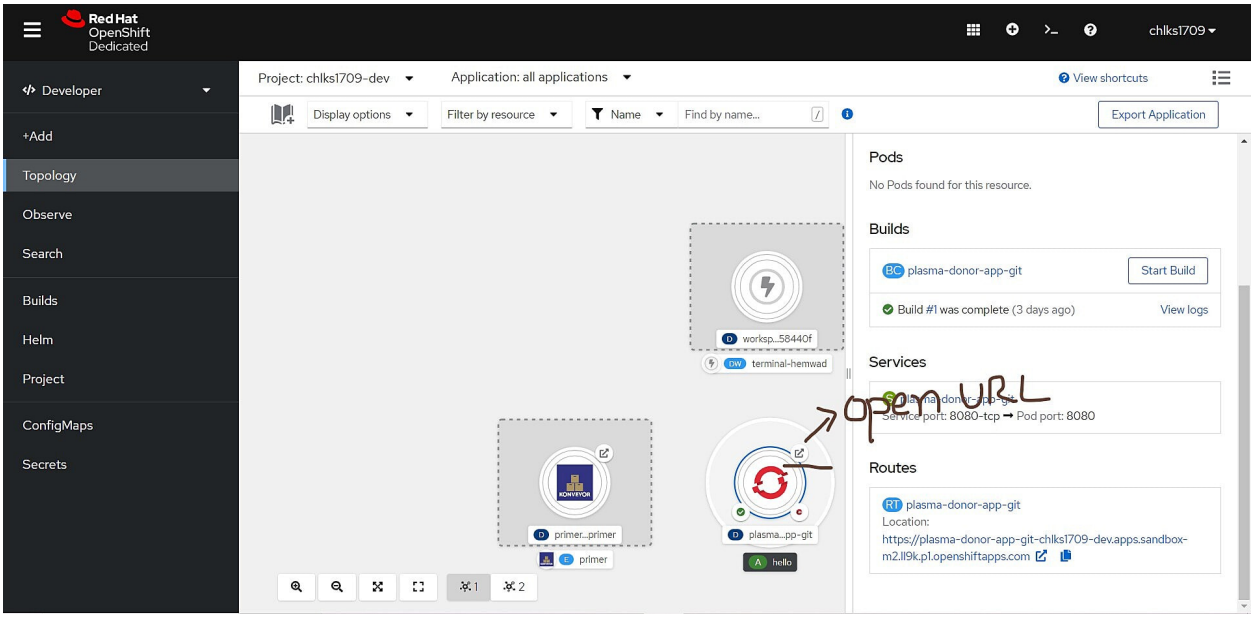


4. Now the application is created. Check the application in Topology tab.

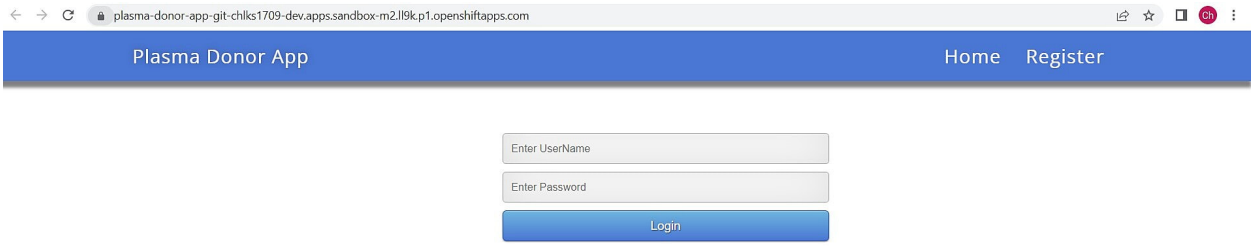




5. After the application is ready and build was complete, click on open URL option.



6. Now we can use the application and the data is stored in the database created in IBM DB2 service.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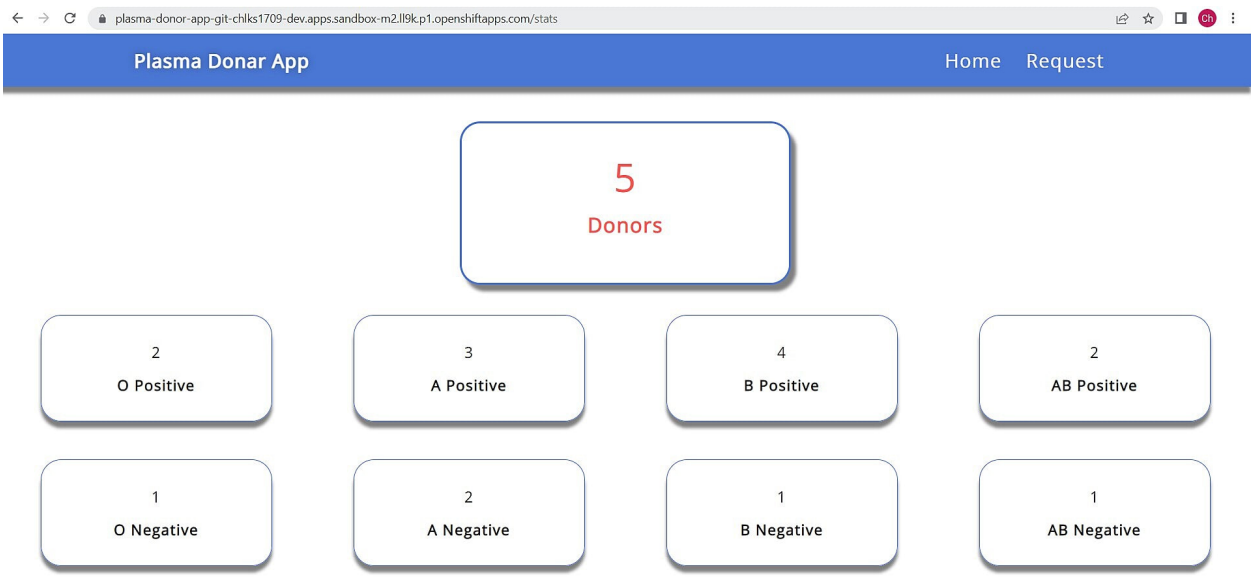
Plasma Donor App
Home
Register
Enter UserName
Enter Password
Login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Plasma Donar App
Home
Request
5
Donors
2
O Positive
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A Positive
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O Negative
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A Negative
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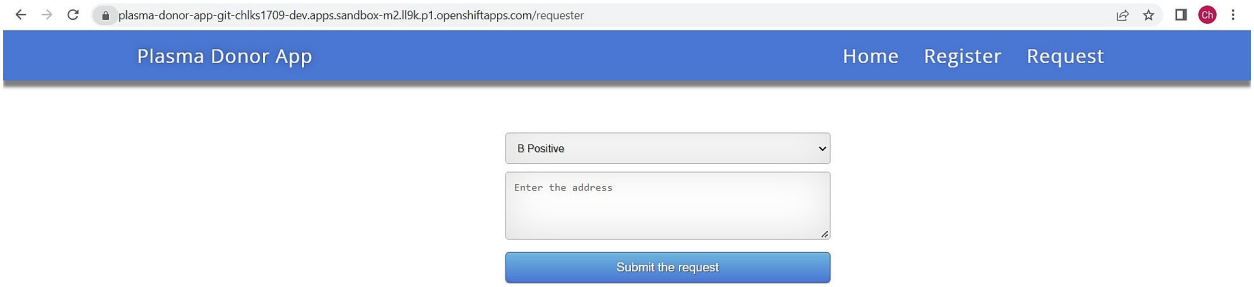
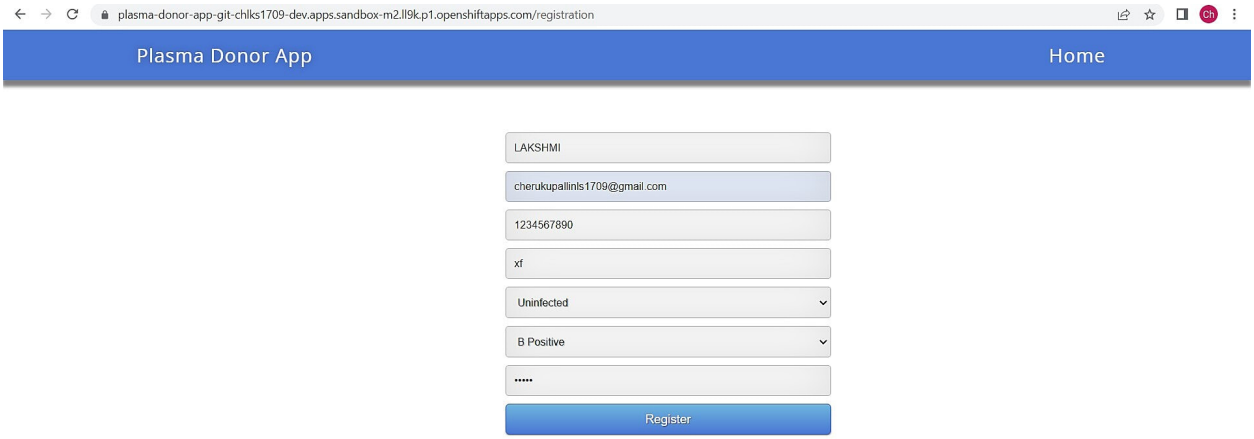
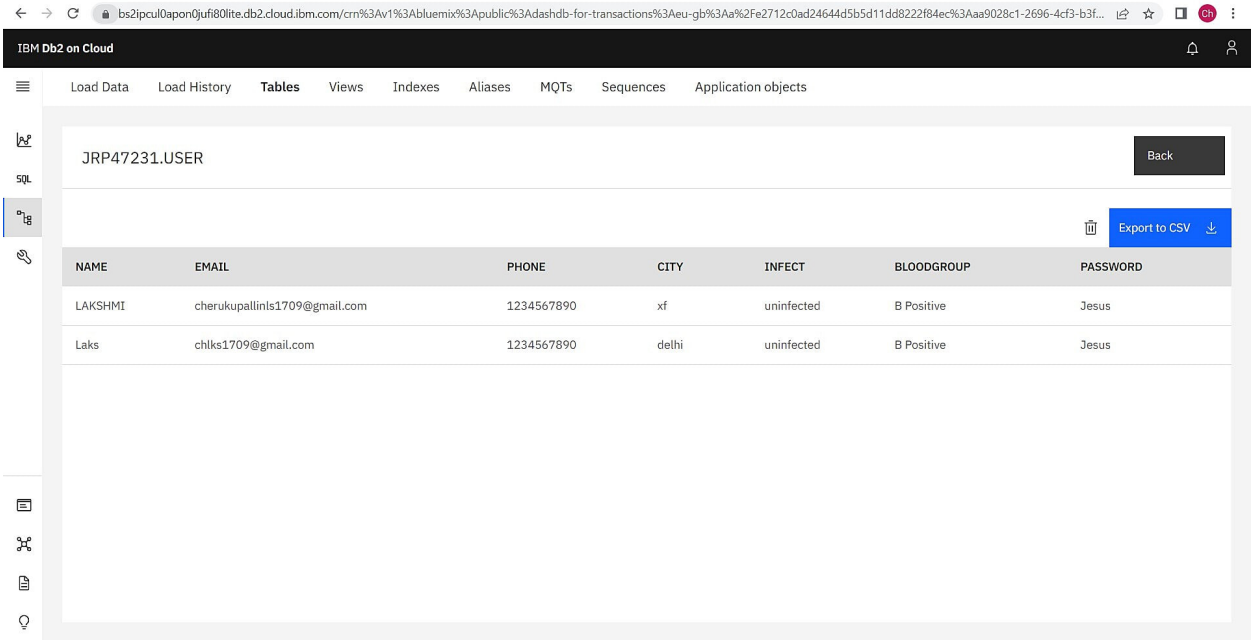




7. The registered data in the application is reflected in the IBM DB2 service.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Load History
Tables
Views
Indexes
Aliases
MQTs
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Back
Export to CSV
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EMAIL
PHONE
CITY
INFECT
BLOODGROUP
PASSWORD
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